

(C)

R-F POWER AMPLIFIER

R-F POWER AMPLIFIER					
Filament	horiated Tu	ngsten			
Voltage	7.5		a-c	or d-	c volts
Current	3.1				amp.
Amplification Factor	10.5				
Direct Interelectrode	Capacitance	s:			
Grid to Plate	2.6				μμf
Grid to Filament	2.2				μμf
Plate to Filament	0.6				μμf
Maximum Overall Length	1				6-7/8"
Maximum Diameter				2	-11/16"
Bulb					S-21
Base		Me	edium 4-	-Pin,	Bayonet
RCA Socket (Type UR-54	12A)			Stock	No.9919
Cooling - Forced air from bulb is recomme	fan directed a	t middle lasses of	and upper	er port	ions of 60 Mc.
Naximum R	atings Are A	lbsolute	Values		
MAXIMUM RATINGS					S
R-F POWER	MPLIFIER - C	lass B	[elepho	ny	
Carrier conditions per tub	e for use with	6 86x. 86	dulation	facto	r of 1.0
D-C Plate Voltage			1250	max.	voits
D-C Plate Current			100	max.	ma.
Plate Input			75	max.	watts
Plate Dissipation			50	max.	watts
Typical Operation:					
D-C Plate Voltage	750	1000	1250		volts
D-C Grid Voltage #	-70	-90	-115		volts
Peak R-F Grid Voltag	e 90	100	115		volts
D-C Plate Current	50	50	50		ma.
D-C Grid Current **	1.0	0.5		appro	
Driving Power **	3.3	3.1	3.0	appro	x. watts
Power Output	11	16	20	appro	x. watts
PLATE-MODULATED R-F	POWER AMPL	IFIER - C	Class C	Telep	hony
Carrier conditions per tub	e for use with	g sax. sc	dulation	facto	r of 1.0
D-C Plate Voltage				max.	volts
D-C Grid Voltage			-400		volts
D-C Plate Current				max.	ma.
D-C Grid Current				max.	ma.
Plate Input				max.	watts
Plate Dissipation				max.	watts
Typical Operation:			,,,	· · · · · · · · · · · · · · · · · · ·	Wates
D-C Plate Voltage		750	1000		volts
		14500	17700		ohms
D-C Grid Voltage *		-290	-310		volts
Peak R-F Grid Voltag	e	415	435		volts
D-C Plate Current		90	90		ma.
D-C Grid Current **		20		approx	
Driving Power **		7.5			. watts
Power Output		42			
Power Output 42 58 approx. watts Obtained by grid-leak resistor or by partial self-bias methods. At crest of a-f cycle with modulation factor of 1.0.					
**, #: See next page.		actor Or			change.
Dec. 1 1942					DATA





R-F POWER AMPLIFIER

(continued from preceding page)

R-F POWER AMPLIFIER & OSCILLATOR - Class C Telegraphy

E aund com	conditions		tu he	without	modulation##
TEAL GOIN	COMMITTIONS	PET	P.H-04	EN SHUME	MOGRECIE

D-C Plate Voltage	1250 1	nax.	volts
D-C Grid Voltage	-400 r	nax.	volts
D-C Plate Current	100 r	nax.	ma.
D-C Grid Current	20 1	nax.	ma.
Plate Input	125 1	nax.	watts
Plate Dissination	50 c	nav	watts

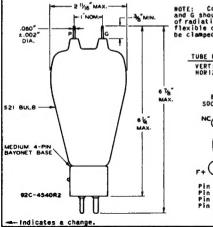
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late bissipation			00	
ypical Operation:				
D-C Plate Voltage	750	1000	1250	volts
-	(-175	-200	-225	volts
D-C Grid Voltage †	₹ 8750	11400	15000	ohms
	1600	1850	2150	ohms
Peak R-F Grid Voltage	300	325	350	volts
D-C Plate Current	90	90	90	ma.
D-C Grid Current **	20	17.5	15 a	prox. ma.
Driving Power **	5.5	5.0	4.5 a	pprox. watts
Power Output	42	58	75 a	pprox. watts
			_	

- For a-c filament supply. If d.c. is used, the stated voltage values should be decreased by approx. one-half of the rated filament voltage. Obtained from fixed supply, by grid resistor (8750, 11800, 15000), or cathode resistor (1600, 1850, 2155). Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 1158 of the carrier conditions.

 Subject to wide variations as explained on sheet TRANS. TUBE RATINGS.

Data on operating frequencies for the 834 are given on the sheet TRANS. TUBE RATINGS vs FREQUENCY. See also "Cooling" under this type.



MOTE: Connections to tips P and G should be made by means of radiating connectors to which flexible circuit leads should be clamped.

TUBE MOUNTING POSITION VERTICAL: Base down.

BOTTOM VIEW OF SOCKET CONNECTIONS



- Pin 1-Filament +
 Pin 2-No Connection
 Pin 3-No Connection
 Pin 4-Filament P-Plate
 G-Grid

Dec. 1, 1942



AVERAGE PLATE CHARACTERISTICS

